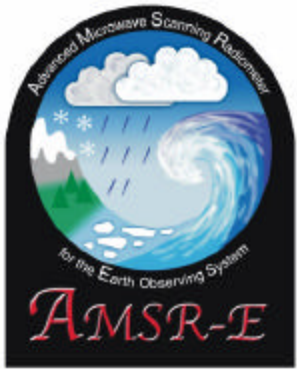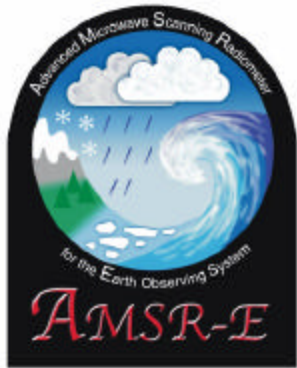# Level 2A QA

**RSS Quality Assessment**

- 4 Bytes Quality Flag for Each Scan

- 2 Bytes Quality Flag for Each Level1A Channel and Scan

- 2 Bytes Quality Flag for Each Level2A Channel and Scan
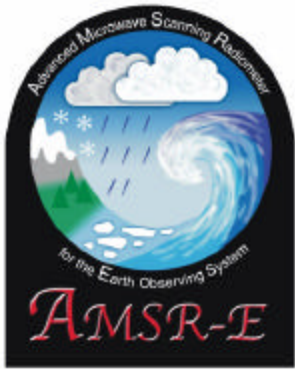
- Miscellaneous

# Level 2A QA (cont.)

- The data volume of all sets of RSS Quality Assessment flags together is less than 1% of the total volume of the Level2A data set.
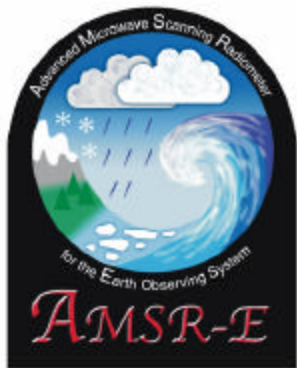
# Level 2A QA (cont.)

- ## *Quality Flag for Each Scan*

| Bit | Meaning |
| --- | --- |
| 0-1 | 0 = Summary of scan is definitely acceptable |
| | 1 = Summary of scan is probably acceptable |
| | 2 = Summary of scan is probably not acceptable |
| | 3 = Summary of scan is definitely not acceptable |
| 2 | Missing scan |
| 3 | Thermistors out of bounds |
| 4 | Spacecraft orientation uncertain |
| 5 | Missing ephemeris data |
| 6 | Questionable geolocation |
| 7 | Attitude out of bounds |
| 8-31 | Not assigned |

# Level 2A QA (cont.)

- **Summary Flags:-**
- **Missing scan:** flag for completely missing scans.
- **Thermistor range:** hot load thermistors out of range.
- **Platform Attitude or Ephemeris:** unusual or unreliable attitude or ephemeris data.

# Level 1A QA flags

| | **Meaning** |
|---|---|
| **0-1** | 0 = Summary of scan and Level1A channel is definitely acceptable |
| | 1 = Summary of scan and Level1A channel is probably acceptable |
| | 2 = Summary of scan and Level1A channel is probably not acceptable |
| | 3 = Summary of scan and Level1A channel is definitely not acceptable |
| **2-3** | 0 = Calibration of all relevant scans is definitely acceptable |
| | 1 = Calibration of all relevant scans is probably acceptable |
| | 2 = Calibration of all relevant scans is probably not acceptable |
| | 3 = Calibration of all relevant scans is definitely not acceptable |
| **4-5** | 0 = Calibration of this scan is definitely acceptable |
| | 1 = Calibration of this scan is probably acceptable |
| | 2 = Calibration of this scan is probably not acceptable |
| | 3 = Calibration of this scan is definitely not acceptable |
| **6** | Mean cold counts out of range for this scan |
| **7** | Mean hot counts out of range for this scan |
| **8** | Count variance too large or number of valid meas. too small for this scan |
| **9** | Mean Hot counts – mean cold counts < 100 for this scan |
| **10** | Slope or offset out of range for this scan |
| **11** | Mean hot counts – mean cold counts < 1 for this scan |
| **12-15** | Not assigned |